

| Application/Control No.       | Applicant(s)/Patent under Reexamination |  |  |  |  |  |
|-------------------------------|---|--|--|--|--|--|
| 09/814,123                    | HOGENKAMP ET AL.                        |  |  |  |  |  |
| Examiner                      | Art Unit                                |  |  |  |  |  |
| Golam M. M. Shameem,<br>Ph.D. | 1626                                    |  |  |  |  |  |

|                             |  | 18    | SUEC     | LASSI   | FICATIO                | NC                                    |                   |        |  |  |
|-----------------------------|--|-------|----------|---|------------------------|---------------------------------------|-------------------|--------|--|--|
| ORIGINAL CROSS REFERENCE(S) |  |       |          |   |                        |                                       |                   |        |  |  |
| CLASS                       | SUBCLASS                                   | CLASS |          |   | SUBCLASS (C            | ONE SUBCLASS                          | S PER BLOCK)      |        |  |  |
| 57 y                        | 40%  | 548   | 3561     | 386.1   | 3731                   | 372.1                                 |                   |        |  |  |
| INTERNATION                 | AL CLASSIFICATION                          |       |          | - , ,   |                        | , , , , , , , , , , , , , , , , , , , |                   |        |  |  |
| ALLIK                       | 31 /415                                    |       |          |   |                        |                                       |                   |        |  |  |
| Conn                        | 231/10                                     |       |          |   |                        |                                       |                   |        |  |  |
|                             | 1  |       |          |   |                        |                                       |                   |        |  |  |
|                             | 1 7  |       |          |   | +                      |                                       |                   |        |  |  |
|                             | 1  |       |          |   |                        |                                       |                   |        |  |  |
|                             | M M Shameen<br>3/5<br>Jant Examiner) (Date | Y03   |          |   | KME                    |                                       | Total Claims Allo | wed: 2 |  |  |
| RH                          | AMON J                                     |       | ERVISORY | K. McKANE<br>Patent exa<br>V center <sup>d</sup><br>2 <b>16</b> | O.G.<br>Print Claim(s) | O.G.<br>Print Fig                     |                   |        |  |  |

|             | Claims renumbered in the same order as presented by applicant |  |       |          |  |        |          | ОС    | PA       |  | □ T.  | .D.      | <br>□R | 1.47  |          |       |          |
|-------------|---|--|-------|----------|--|--------|----------|-------|----------|--|-------|----------|--------|-------|----------|-------|----------|
|             |   |  |       |          |  |        |          |       |          |  |       |          |        |       |          |       |          |
| Final       | Original  |  | Final | Original |  | Final  | Original | Final | Original |  | Final | Original |        | Final | Original | Final | Original |
|             | 1   |  | 7     | 31       |  |        | 61       | -     | 91       |  |       | 121      |        |       | 151      |       | 181      |
| 2           | 2   |  |       | 32       |  |        | 62       |       | 92       |  |       | 122      |        |       | 152      |       | 182      |
| 3           | 3   |  |       | 33       |  |        | 63       |       | 93       |  |       | 123      |        |       | 153      |       | 183      |
| 4           | 4   |  |       | 34       |  |        | 64       |       | 94       |  |       | 124      |        |       | 154      |       | 184      |
| 5           | 5   |  |       | 35       |  |        | 65       |       | 95       |  |       | 125      |        |       | 155      |       | 185      |
| _6          | 6   |  |       | 36       |  |        | 66       |       | 96       |  |       | 126      |        |       | 156      |       | 186      |
| 2           | 7   |  |       | 37       |  |        | 67       |       | 97       |  |       | 127      |        |       | 157      |       | 187      |
| 8           | 8   |  |       | 38       |  |        | 68       |       | 98       |  |       | 128      |        |       | 158      |       | 188      |
|             | 9   |  |       | 39       |  |        | 69       |       | 99       |  |       | 129      |        |       | 159      |       | 189      |
| 10          | 10  |  |       | 40       |  | 7 7 73 | 70       |       | 100      |  |       | 130      |        |       | 160      |       | 190      |
|             | 4   |  |       | 41       |  |        | 71       |       | 101      |  |       | 131      |        |       | 161      |       | 191      |
|             | 12  |  |       | 42       |  |        | 72       |       | 102      |  |       | 132      |        |       | 162      |       | 192      |
| ļ           | 45  |  |       | 43       |  |        | 73       |       | 103      |  |       | 133      |        |       | 163      |       | 193      |
|             | 14  |  |       | 44       |  |        | 74       |       | 104      |  |       | 134      |        |       | 164      |       | 194      |
| H           | 15  |  |       | 45       |  |        | 75       |       | 105      |  |       | 135      |        |       | 165      |       | 195      |
| 12          | 16  |  |       | 46       |  |        | 76       |       | 106      |  |       | 136      |        |       | 166      |       | 196      |
| 13          | 17  |  |       | 47       |  |        | 77       |       | 107      |  |       | 137      |        |       | 167      |       | 197      |
|             | 18  |  |       | 48       |  |        | 78       |       | 108      |  |       | 138      |        |       | 168      |       | 198      |
|             | 497   |  |       | 49       |  |        | 79       |       | 109      |  |       | 139      |        |       | 169      |       | 199      |
|             | 20  |  |       | 50       |  |        | 80       |       | 110      |  |       | 140      |        |       | 170      |       | 200      |
| <b></b> _   | 24  |  |       | 51       |  |        | 81       |       | 111      |  |       | 141      |        |       | 171      |       | 201      |
| 1 4         | 22  |  |       | 52       |  |        | 82       |       | 112      |  |       | 142      |        |       | 172      |       | 202      |
| 15          | 23  |  |       | 53       |  |        | 83       |       | 113      |  |       | 143      |        |       | 173      |       | 203      |
| 16          | 24  |  |       | 54       |  |        | 84       |       | 114      |  |       | 144      |        |       | 174      |       | 204      |
| 17          | 25  |  |       | 55       |  |        | 85       |       | 115      |  |       | 145      |        | ]     | 175      |       | 205      |
|             | 280   |  |       | 56       |  |        | 86       |       | 116      |  |       | 146      |        |       | 176      |       | 206      |
| 10          | 27  |  |       | 57       |  |        | 87       |       | 117      |  |       | 147      |        |       | 177      |       | 207      |
| 1g<br>19    | 28  |  |       | 58       |  |        | 88       |       | 118      |  |       | 148      |        |       | 178      |       | 208      |
| <del></del> | 29  |  |       | 59       |  |        | 89       |       | 119      |  |       | 149      | [      |       | 179      |       | 209      |
| 20          | 30  |  |       | 60       |  |        | 90       |       | 120      |  |       | 150      |        |       | 180      |       | 210      |

| 90h   | Subclass | ISSUE CLASSIFICATION |
|-------|----------|----------------------|
| \$1 ५ | Class    | ISSUE CLAS           |
|       |          |                      |

| ·        | TATENT NUMBER |
|----------|---------------|
| DUPLICAT | 141           |

## **U.S. UTILITY PATENT APPLICATION**

| O.1.P.E.    | PATENT DATE |  |
|-------------|-------------|--|
| SCANNED Q.A | ,           |  |

| SECTOR | CLASS | SUBCLASS | ART UNIT | EXAMINER                 |
|--------|-------|----------|----------|--------------------------|
|        | 514   | 406      | 1326     | Shameem                  |
|        |       |          | FILE     | D WITH: DISK (CRF) FICHE |

## PREPARED AND APPROVED FOR ISSUE

## **ISSUING CLASSIFICATION** ORIGINAL CROSS REFERENCE(S) CLASS SUBCLASŞ CLASS SUBCLASS (ONE SUBCLASS PER BLOCK) 548 INTERNATIONAL CLASSIFICATION Continued on Issue Slip Inside File Jacket

| TERMINAL DISCLAIMER  | DRAWING                             | as                     | CLAIMS ALLOWED              |                             |  |
|--|-------------------------------------|------------------------|-----------------------------|-----------------------------|--|
|  | Sheets Drwg. Figs. Drv              | vg. Print Fig.         | Total Claims                | Print Claim for O.G.        |  |
|  | 1 4                                 | ,                      | 21                          | ONE                         |  |
| a) The term of this patent subsequent to(date)                         | Golam mm Shar                       | neem 315702            | NOTICE OF ALLOWANGE MILED   |                             |  |
| has been disclaimed.   | (Assistent Exeminer)                | (Date)                 |                             |                             |  |
| b) The term of this patent shall not extend beyond the expiration date | Jugh K.                             | IM                     | 3-13-03.                    |                             |  |
| of U.S Patent. No  | JOSEPH K.                           | MCKANE                 | issu                        | JE FEE                      |  |
| <del></del>  | SUPERVISORY PATE                    |                        | R Amount Due                | Date Paid                   |  |
|  | TECHNOLOGY C                        | NTER 1600              | 1300                        |                             |  |
| c) The terminalmonths of   |                                     |                        | ISSUE BAT                   | CH NUMBER                   |  |
| this patent have been disclaimed.                                      | -                                   |                        |                             |                             |  |
| WARNING  | (Legal Instruments Examiner)        | (Date)                 |                             |                             |  |
| WARNING:   |                                     |                        |                             |                             |  |
| The information disclosed herein may be res                            | ricted. Unauthorized disclosure may | be prohibited by the L | Inited States Code Title 35 | . Sections 122, 181 and 388 |  |

(LABEL AREA)

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